

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/675,971
Source:	OME
Date Processed by STIC:	10-10-03
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to (EFFECTIVE 12/01/2003):
  U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office. Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark-Place, Arlington, VA 22202

Revised 10/08/2003

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/675, 97)
ATTN: NEW RULES CASES	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220> <223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11 Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/09/2003



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/675,971

DATE: 10/10/2003

TIME: 10:45:55

Input Set: A:\07680.0017-00000.ST25.txt
Output Set: N:\CRF4\10102003\J675971.raw

```
3 <110> APPLICANT: Dibenedetto, Peter
      5 <120> TITLE OF INVENTION: ASSAYS FOR EVALUATING ANTI-OSTEOARTHRITIC ACTIVITY
     7 <130> FILE REFERENCE: 07680-0017-00000
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/675,971
     10 <141> CURRENT FILING DATE: 2003-10-02
     12 <160> NUMBER OF SEQ ID NOS: 15
     14 <170> SOFTWARE: PatentIn version 3.1
                                                             Does Not Comply
     16 <210> SEQ ID NO: 1
                                                             Corrected Diskette Needed
     17 <211> LENGTH: 20
     18 <212> TYPE: DNA
C--> 19 <213> ORGANISM: Artificial/Primer See item
                                                            Summary
W--> 21 <220> FEATURE:
W--> 21 <223> OTHER INFORMATION:
W--> 21 <400> 1
                                                                              20
     22 actggtggtg gcagatgaca
     25 <210> SEQ ID NO: 2
     26 <211> LENGTH: 23
     27 <212> TYPE: DNA
C--> 28 <213> ORGANISM: Artificial/Primer
W--> 30 <220> FEATURE:
W--> 30 <223> OTHER INFORMATION;
W--> 30 <400> 2
                                                                              23
     31 tcactgttag caggtagege ttt
     34 <210> SEQ ID NO: 3
     35 <211> LENGTH: 19
     36 <212> TYPE: DNA
C--> 37 <213> ORGANISM: Artificial/Probe
W--> 39 <220> FEATURE:
W--> 39(<223> OTHER INFORMATION:
W--> 39 <400> 3
                                                                              19
     40 tggccgcatt ccacggtgc
     43 <210> SEQ ID NO: 4
     44 <211> LENGTH: 19
     45 <212> TYPE: DNA
C--> 46 <213> ORGANISM Artificial/Primer
W--> 48/<220> FEATURE:
W--> 48 <223> OTHER INFORMATION
W--> 48 <400> 4
                                                                              19
     49 tgqctcacqa aatcggaca
     52 <210> SEO ID NO: 5
     53 <211> LENGTH: 23
     54 <212> TYPE: DNA
C--> 55 <213> ORGANISM: Artificial/Primer
```

RAW SEQUENCE LISTING

DATE: 10/10/2003

PATENT APPLICATION: US/10/675,971

TIME: 10:45:55

Input Set : A:\07680.0017-00000.ST25.txt
Output Set: N:\CRF4\10102003\J675971.raw

W> 57/<220> FEATURE:	
W> 57 <223> OTHER INFORMATION:	
W> 57 <400> 5	
58 ggaaccaaag gtctcttcac aga	23
61 <210> SEQ ID NO: 6	
62 <211> LENGTH: 25	
63 <212> TYPE: DNA	
C> 64 <213> ORGANISM: (Artificial/Probe)	
W> 66 <220> FEATURE:	
W> 66 <223> OTHER INFORMATION:	
W> 66 <400> 6	
67 cttggcctct cccatgacga ttcca	25
70 <210> SEQ ID NO: 7	25
71 <211> LENGTH: 21	
72 <212> TYPE: DNA	
C> 73 <213> ORGANISM: (Artificial/Primer)	
W> 75 <220> FEATURE:	
W> 75 <223> OTHER INFORMATION:	
W> 75 <400> 7	
76 gggagatcat cgggacaact c	21
79 <210> SEQ ID NO: 8	
80 <211> LENGTH: 19	
81 <212> TYPE: DNA	
C> 82 <213> ORGANISM: Artificial/Primer	
W> 84 <220> FEATURE:	
W> 84\<223> OTHER INFORMATION;	
W> 84 <400> 8	
85 gggcctggtt gaaaagcat	19
88 <210 > SEO ID NO. 9	
89 <211> LENGTH: 29 90 <212> TYPE: DNA	
90 <212> TYPE: DNA	
C> 91 <213> ORGANISM: (Artificial/Probe)	
W> 93/<220> FEATURE:	
W> 93 <223> OTHER INFORMATION:	
W> 93 <400> 9	29
94 ccttttgatg gacctggagg aaatcttgc	2,3
97 <210> SEQ ID NO: 10	
98 <211> LENGTH: 20	
99 <212> TYPE: DNA	
C> 100 <213> ORGANISM Artificial/Primer	
W> 102 <220> FEATURE:	
W> 102 (<223> OTHER INFORMATION:/	
W> 102 <400> 10	
100	20
103 tggcattgct gacatcatga	20
103 tggcattgct gacatcatga 106 <210> SEQ ID NO: 11	20
	20
106 <210> SEQ ID NO: 11	
106 <210> SEQ ID NO: 11 107 <211> LENGTH: 17 108 <212> TYPE: DNA	
106 <210> SEQ ID NO: 11 107 <211> LENGTH: 17 108 <212> TYPE: DNA	

RAW SEQUENCE LISTING

DATE: 10/10/2003

PATENT APPLICATION: US/10/675,971

10/675,971 TIME: 10:45:55

Input Set : A:\07680.0017-00000.ST25.txt
Output Set: N:\CRF4\10102003\J675971.raw

w>	111 (<223> OTHER INFORMATION:)		
M>	111 <400> 11		
	112 gccagagggc ccatcaa		17
	115 <210> SEQ ID NO: 12		
	116 <211> LENGTH: 30		
	117 <212> TYPE: DNA		
C>	118 <213> ORGANISM: Artificial/Probe		
W>	120/<220> FEATURE:		
w>	120 <223> OTHER INFORMATION!		
W>	120 <400> 12		
	121 ctcttttgga attaaggagc atggcgactt		30
	124 <210> SEQ ID NO: 13		
	125 <211> LENGTH: 21		
	126 <212> TYPE: DNA	Oraco	
C>	127 <213> ORGANISM: Artificial/Primer)	01101	
W>	129 <220> FEATURE:		
W>	129 <223> OTHER INFORMATION:		
W>	129 <400> 13		
	130 ttctcgttgc tgctcatgaa a		21
	133 <210> SEQ ID NO: 14		
	134 <211> LENGTH: 26		
	135 <212> TYPE: DNA		
	136 <213> ORGANISM: Artificial/Primer		
W>	138 <220> FEATURE:		
W>	138 <223> OTHER INFORMATION:		
₩>	138 <400> 14		
	139 tagagtgggt acatcaaagc ttcagt		26
	142 <210> SEQ ID NO: 15		
	143 <211> LENGTH: 25		
	144 <212> TYPE: DNA		
	145 <213> ORGANISM: Artificial/Probe		
W>	147 <220> FEATURE:		
	147 (<223> OTHER INFORMATION:)		
M>	147 <400> 15		
	148 tggccactcc ctgggtctct ttcac		25

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/675,971

DATE: 10/10/2003 TIME: 10:45:56

Input Set : A:\07680.0017-00000.ST25.txt
Output Set: N:\CRF4\10102003\J675971.raw

## Use of <220> Feature (NEW RULES):

Sequence(s)\_are missing the <220> Feature and associated headings. Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

### VERIFICATION SUMMARY

DATE: 10/10/2003 PATENT APPLICATION: US/10/675,971 TIME: 10:45:56

Input Set : A:\07680.0017-00000.ST25.txt Output Set: N:\CRF4\10102003\J675971.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number L:19 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1 L:21 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:1, <213> ORGANISM: Artificial Sequence L:21 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:1, <213> ORGANISM: Artificial Sequence L:21 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1, Line#:21 L:28 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2 L:30 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:2, <213> ORGANISM: Artificial Sequence L:30 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:2, <213> ORGANISM: Artificial Sequence L:30 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2, Line#:30 L:37 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3 L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:3, <213> ORGANISM: Artificial Sequence L:39 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:3, <213> ORGANISM: Artificial Sequence L:39 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3, Line#:39 L:46 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4 L:48 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:4, <213> ORGANISM: Artificial Sequence L:48 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:4, <213> ORGANISM: Artificial Sequence L:48 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:48 L:55 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5 L:57 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213> ORGANISM: Artificial Sequence L:57 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213> ORGANISM: Artificial Sequence L:57 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5, Line#:57 L:64 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6 L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213> ORGANISM: Artificial Sequence L:66 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213> ORGANISM: Artificial Sequence L:66 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6, Line#:66 L:73 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7 L:75 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:7, <213> ORGANISM: Artificial Sequence L:75 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:7, <213> ORGANISM: Artificial Sequence L:75 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7, Line#:75 L:82 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8 L:84 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:8, <213> ORGANISM: Artificial Sequence L:84 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:8, <213> ORGANISM: Artificial Sequence L:84 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8, Line#:84 L:91 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9 L:93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:9, <213> ORGANISM: Artificial Sequence L:93 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:9, <213>

#### ORGANISM: Artificial Sequence

- L:93 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:93
- L:100 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
- L:102 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213> ORGANISM:Artificial Sequence
- L:102 M: 258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213> ORGANISM:Artificial Sequence
- L:102 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:102
- L:109 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
- L:111 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:11, <213> ORGANISM:Artificial Sequence
- L:111 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213> ORGANISM:Artificial Sequence
- L:111 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11, Line#:111
- L:118 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
- L:120 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>
- ORGANISM: Artificial Sequence
- L:120 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213> ORGANISM:Artificial Sequence

VERIFICATION SUMMARY

DATE: 10/10/2003 TIME: 10:45:56

PATENT APPLICATION: US/10/675,971

Input Set : A:\07680.0017-00000.ST25.txt
Output Set: N:\CRF4\10102003\J675971.raw

L:127 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13 L:129 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:13, <213> ORGANISM:Artificial Sequence

L:129 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:13, <213> ORGANISM:Artificial Sequence

L:129 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13, Line#:129

L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14 L:138 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>

ORGANISM:Artificial Sequence L:138 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213> ORGANISM:Artificial Sequence

L:138 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14, Line#:138

L:145 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15

L:147 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:15, <213> ORGANISM:Artificial Sequence

L:147 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:15, <213> ORGANISM:Artificial Sequence

L:147 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15, Line#:147